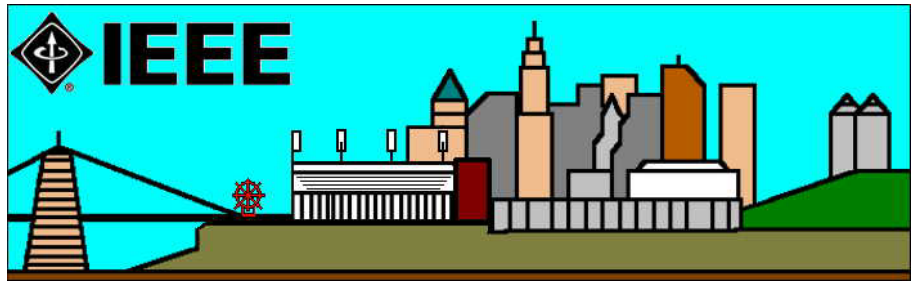


**IEEE CINCINNATI
SECTION
NEWSLETTER
OCTOBER 2003**



OCTOBER MEETING
SENSIBLE SECURITY & REMOTE
CONNECTIVITY FOR COMPUTERS

DATE: Thursday, October 23, 2003

PLACE : Raffel's – 10160 Reading Road (see below for directions)

TIME : 5:30 p.m. to 7:00 p.m. - Social Time/Dinner
7:00 p.m. to 8:30 p.m. - Program

COST FOR DINNER: \$15.00 which includes a buffet dinner, soft drinks/coffee, tax & gratuity.
Cost for student members - \$10.00

MENU SELECTIONS: Maryland Crab Cakes, Baked Pork Chops with Baked Apples, Boneless Chicken in Sherry Wine Sauce, Twice Baked Potatoes, Wild Rice, Sautéed Vegetables, Tossed Salad, Dinner Rolls and Butter, Assorted Bar Cookies, Coffee, Tea Iced Tea, Soft Drinks. There is also a bar available for the purchase of alcoholic drinks. Raffel's is located at 10160 Reading Road, south of Glendale-Milford Road on the east side of Reading. Take I-75 to the Glendale-Milford Rd. Exit, go east on Glendale-Milford Road approximately 3/4 of a mile to Reading Rd. and turn right on Reading.

Please call the Cincinnati Section Voice Mailbox at 513-629-9380, by **Noon, Tuesday, October 21, 2003** if you plan to attend. Please leave your **Name, IEEE Member Number,** and **a daytime telephone number.** You may also make a reservation by e-mailing our Arrangements Chair, **Charlie Nash**, at cnash@ieee.org.

ABOUT THE PRESENTATION: This month's meeting will feature a presentation by Mr. Matt Scherocman, Sales and Marketing Manager for the Secure Network Solutions Group at PCMS. PCMS Datafit's Secure Network Solution Group is Microsoft's go to market partner for companies with 50-300 desktops in Cincinnati. They focus on helping mid-sized companies resolve their IT needs both through augmenting expertise on a project basis and totally outsourcing IT support. PCMS focuses on Microsoft infrastructure products (Windows, Exchange, Sharepoint), Symantec security products, and Cisco networking technologies.

The presentation will cover the following:

- Sensible Security: How to protect your business and home technology from viruses and hackers. How much security is enough or much is too much?
 - Firewalls
 - Vulnerability scans
 - Intrusion Detection
 - Virus protection – new ways that viruses are attacking
 - Alerting services

- Remote Connectivity: How to connect to your business from remote locations.
 - Virtual Private Networks
 - Wireless cards
 - 802.11 versus wireless cellular
 - Smartphones
 - PocketPC phones / Palm PDA

ABOUT THE SPEAKER: Matt Scherocman is the Sales and Marketing Manager for the Secure Network Solutions Group at PCMS and responsible for business development and divisional profitability. He has been helping companies develop and implement technology that helps their business grow for over ten years. He has worked for local and national technology firms including Pomeroy Computer, CompUSA, and Apple Computer.

CHAIR'S MESSAGE

by Fred Nadeau, Section Chair

Our September Section meeting was attended by a record number of our community. The topic of the 2003 Blackout was indeed timely and of major interest. Mr. John Procario, Vice President and CEO of Energy Delivery Unit of Cinergy delivered a very professional and detailed timeline explanation of the August 14th blackout which affected nearly 50 million people in the 8 states and 2 Canadian provinces. We sincerely appreciate Mr. Procario giving up his valuable time to speak to the community on the causes of the blackout. Mr. Procario expressed that action is being taken to upgrade the grid in Ohio, Michigan and surrounding states to prevent reoccurrence of massive blackouts as this occurrence.

In the last newsletter and in the Section meeting we announced we were hosting another opportunity for members to upgrade their membership to senior member. Professors Jim Everly and Max Rabiee from the University of Cincinnati will host the workshop at the College of Applied Science (CAS) Campus on Saturday, October 25, 2003 in Room S212 from 9:00 am to 1:00 pm. I would like to have all Section members who meet the senior member requirements to take advantage of this workshop to have our Section staff assist in completing their application and to obtain the required senior member reference signatures.

We are scheduled to have another Executive Committee Meeting on October 16, 2003. If you have a particular topic you wish the committee to discuss, please email me at the address below.

Fred Nadeau, Section Chair
E-mail: f.nadeau@ieee.org
Phone No. 937-289-2800

NEW MEMBERS

The following individuals are IEEE members who are new to our Section:

Aravind C. Appaswamy	Daniel E. Harner	Timothy J. Meehan
Taehoon A. Choi	Paul M. Hartman	Daniel P. Orsary
Joseph J. Dangelo	Sireesha Kandula	John O. Oti
Maureen Doyle	Margarita Levit	Sudhir Polarouthu
Andrew L. Freisthler	Robert R. Martin	Mulugeta H. Tedla
Mark Haenni	Andy M. McLandrich	Traci Y. Ward
	C. E. McWhirt	

We wish to welcome these new members to our Section!!!

NEW !!!!

CINCINNATI SECTION WEB SITE - JOB/CAREER OPPORTUNITIES

The Cincinnati IEEE Website would like to provide a forum for its members who are searching for new job/career opportunities. Initially we will list small-large size companies in the greater Cincinnati area who are currently recruiting engineers. Local Companies can post skillsets, promote their business and work with IEEE to create an opportunity-rich marketplace for both employer and employee. IEEE members benefit by taking advantage of a new source of job leads from some non traditional employers.

Interested business's can contact Laurie Tappel at ltappel@ieee.org. Please provide a brief description of the work your business performs, address - phone and open positions.

Scanning the Past: A History of Electrical Engineering from the Past

Submitted by Dick Reiman, Historian

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Frank Conrad and Station KDKA

Seventy years ago this month, the PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS (IRE) included a paper by Frank Conrad on the design of radio receivers. He had recently been promoted to the position of Assistant Chief Engineer of the Westinghouse Electric and Manufacturing Company in Pittsburgh, Pennsylvania. He had worked for Westinghouse since 1890 and had been instrumental in starting the pioneering radio broadcasting station KDKA in 1920.

In his paper Conrad discussed design features of receivers suitable for operation by those "entirely unfamiliar with the techniques of radio apparatus." He recommended use of a regenerative vacuum-tube circuit because of its sensitivity and simple tuning. However, he noted that one significant defect of the regenerative receiver was the interference which it could produce in other nearby receivers due to radiation from the oscillator. He also stressed the importance of having a good antenna and a source of power which did not require frequent attention.

Conrad was born in Pittsburgh in 1874, the son of a railroad mechanic. Conrad's formal education ended when he completed the 7th grade and he went to work in the shops of the Westinghouse Company at age 16. In 1897 he joined the Westinghouse Testing Department, where he demonstrated inventive ability through patented inventions, including a watt-hour meter and an automobile electrical system. He was to receive more than 200 patents during his long career. By 1912, he became an amateur radio enthusiast and constructed a receiver to monitor Navy time signals. In 1916 he received a license to operate a radio transmitter designated as station 8XK from his home, and he was permitted to use the station to test military radio apparatus after the government suspended amateur radio operation in April 1917 because of the war. He did important work on radio equipment for the Army Signal Corps during World War I, including sets for installation in aircraft. He joined the IRE in 1917 and became a Fellow of the Institute in 1927.

Conrad resumed operation of his amateur radio station in 1919 and began to broadcast music from phonograph records on a regular basis. Reportedly he was not very fast at using Morse code, and he decided that the use of a microphone would speed up his communication with other amateurs. His music programming proved unexpectedly popular and caught the attention of Harry P. Davis, a Westinghouse vice-president, who foresaw a

potential consumer market for radio receivers. Davis arranged for a transmitter designed by Conrad to be installed at the Westinghouse plant. The station was licensed as KDKA, and it broadcast, with a power of about 100 watts, election returns during the evening of November 2, 1920. The transmitter power was raised to 1000 watts in October 1921, and it was reported that the station could be heard over much of the United States and in Europe at night under favorable conditions. By then the radio broadcasting industry had achieved an astonishing rate of growth, and there were more than 500 commercial stations on the air in the United States by the end of 1922. During the 1920's Conrad turned his attention to short-wave radio and published another IRE paper in October 1924 in which he reported promising results at wavelengths down to 60 meters.

Conrad received the Morris N. Liebmann award from the IRE in 1925 and the Edison Medal from the American Institute of Electrical Engineers in 1930. He retired in 1940 and died during a trip to Florida in December 1941.

*James E. Brittain
School of History, Technology, and Society
Georgia Institute of Technology*

**"Supersize" your IEEE Membership Upgrade to IEEE Senior
Saturday, October 25, 2003**

You are invited to participate in an IEEE Cincinnati Section Senior Member Initiative on the College of Applied Science (CAS) Campus on Saturday, October 25, 2003 in Room S212 from 9:00am to 1:00pm. If you have a baccalaureate degree in engineering and seven or more years of professional experience you are eligible to apply for upgrade to Senior Member Grade.

Complete information, including requirements can be found at: <http://www.ieee.org/membership/upgrade.html>

There are many reasons why you should consider upgrading your membership. Some of the benefits include:

- ❑ The professional recognition of your peers for technical and professional excellence.
- ❑ An attractive fine wood and bronze engraved Senior Member plaque to proudly display.
- ❑ Up to \$25.00 gift certificate toward one new Society membership.
- ❑ A letter of commendation to your employer on the achievement of Senior Member grade (upon the request of the newly elected Senior Member.)
- ❑ Announcement of elevation in Section/Society and/or local newsletters, newspapers and notices.
- ❑ Eligibility to hold executive IEEE Volunteer Position.

We know that many eligible members never take the time to apply for Senior Membership, either because they think the requirements are too high or they think it would take too much time. We would like to show you that neither of these reasons should be an obstacle.

The basic requirement for Senior Membership is 10 years in the profession with 5 years of significant performance. Significant performance can include responsibility for, or major contribution to, important scientific or engineering work, publication of engineering or scientific papers, books or inventions, development of courses and related activities. Most engineers with 10 years in the profession will meet these requirements. Details and examples are given on the IEEE web site: <http://www.ieee.org/organizations/rab/md/smpprogram.html#role>

Moreover, your application can be done quickly. The IEEE web site has forms for submission of applications and the required references. And finally, to make the submission as easy as possible, the Cincinnati Section is conducting a "Senior Member Workshop" at the University of Cincinnati's OMI College of Applied Science on Saturday, October 25, 2003 in Room S212 from 9:00am to 1:00pm. If you are interested in becoming a Senior Member of IEEE please contact Jim Everly, Vice Chairman, or Max Rabiee, Chair of Pace Activities, IEEE Cincinnati Section.

Directions: The address of the OMI College of Applied Science is 2220 Victory Parkway. Take I-71 or I-75 toward downtown. Then, take the Columbia Parkway (I-471) to Victory Parkway.

Max Rabiee max.rabiee@uc.edu (513) 556-4202
Chair of Pace Activities, IEEE Cincinnati Section

Jim Everly j.everly@ieee.org (513) 556-4241
Vice Chairman, IEEE Cincinnati Section

TO SUBSCRIBE TO THE ELECTRONIC NEWSLETTER

This newsletter is only available via e-mail or the Section's web page at <http://ieee.cincinnati.fuse.net/> with the exception of new Section members (one issue only) or members who have specifically requested a copy be delivered through the U. S. Mail.

If you are a new Section member and would like to get this newsletter electronically, please contact Bob Morrison (Editor) at **513-287-3697** or by e-mail at j.r.morrison@ieee.org. Provide your name and member number. In case there are questions, please include a daytime telephone number as well.

If you would like the "Snail Mail" version, you must contact Bob Morrison via the above means or call the Section's voice mail at **513-629-9380**.

LOOKING FOR A JOB? LOOKING TO FILL A POSITION?

If you are an IEEE Member who is trying to find employment, either because of a desire for a change of scenery or due to circumstances beyond your control, the IEEE Job Site may be what you are looking for. Go to <http://careers.ieee.org>. There you can register and profile your ideal job. Use the IEEE Job Site to create a profile of your ideal job and update it anytime. Jobs matching the profile can be viewed immediately, or automatically sent via email. You choose how much of your identity and information to give to an employer. Sign up and be prequalified for an interview within minutes.

If you are an Employer looking to fill a vacant position, you can post jobs, search resumes and prescreen candidates, all of whom are prequalified, highly skilled IEEE Members, using the IEEE Job Site. You may place banner ads on this site, or classified and display advertising in premium IEEE print publications. Let IEEE's unique "smart job" technology in the IEEE Job Site find you the best candidates faster and reduce your time-to-hire and recruitment costs!

IEEE Job Site

smiths



engineering careers in aerospace

Thursday, 4 September 2003

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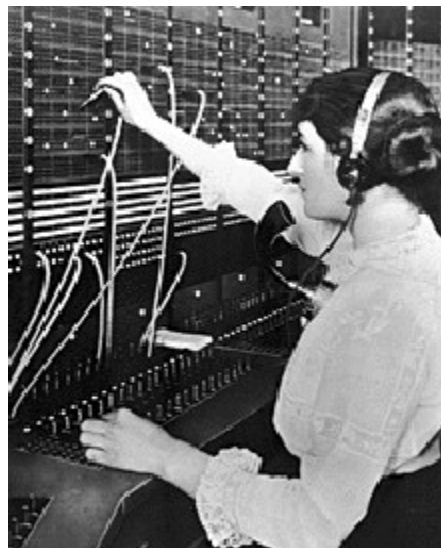
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Register and profile your ideal job today! Use the **IEEE Job Site** to create a profile of your ideal job and update it anytime. Jobs matching the profile can be viewed immediately, or automatically sent via email. You choose how much of your identity and information to give to an employer. Sign up and be prequalified for an interview within minutes!

Employers

Post jobs, search resumes and prescreen candidates, all of whom are prequalified, highly skilled IEEE Members, using the **IEEE Job Site**. Place banner ads on this site, or classified and display advertising in premium IEEE print publications. Let IEEE's unique "smart job" technology in the **IEEE Job Site** find you the best candidates faster and reduce your time-



ELECTRICAL TECHNOLOGIES IN THE MOVIES: LONG-DISTANCE TELEPHONE CALLS

From The IEEE History Center, Newsletter No. 61, March 2003.

Movies illustrate quite effectively how making long-distance calls has changed over the years. Even before the development of the triode electron-tube as a telephone repeater, which happened in about 1912, it was possible to make a long-distance call halfway across the North American continent. The 1944 Vincente Minnelli movie

"Meet Me in St. Louis" shows a call made in 1903 between New York City and St. Louis; the callers need to speak loudly to be understood, and they comment on how expensive their conversation is.

Until the 1950s (even later in many places) a long-distance call began with a request to an operator to set up the connection, which took several minutes or longer, the operator calling back when it was established. This procedure is shown in numerous movies, such as the Joseph Mankiewicz movie (starring Bette Davis) "All About Eve" (1950), the Jules Dassin movie "Rififi" (1955), and the Federico Fellini movie "8 1/2" (1963). In 1950 AT&T introduced area codes and the following year inaugurated direct-dial long-distance. This new service was shown rather ostentatiously in the 1963 Jerry Lewis movie "The Nutty Professor".

Old movies frequently remind us that long-distance calls used to be very expensive. In "The Thin Man" (1934) Nick and Nora Charles, who are very well off, are hosting a party; a guest asks if he might use the phone to call his mother; when it turns out to be a long-distance call, Nick glares at him. When a woman gets a long-distance call in "A Place in the Sun" (1951) she assumes that there must be a serious problem to warrant such a call. In "Gentlemen Prefer Blondes" (1953) Lorelei Lee wants to get the son of a millionaire to France so that his father cannot be calling him twice a day—even a millionaire, it is understood, could not make daily calls to Europe. Sometimes the actual cost is mentioned: in "Grand Hotel" (1932) we learn that a call costs 2 Marks 90 per minute ("so talk quickly" it is advised), and in "National Lampoon's European Vacation" (1985) a teenager, who makes several calls from London to Chicago, runs up a bill of \$250.

Ship-to-shore telephony (between yacht and hotel) is depicted in "Some Like It Hot" (1959). The longest distance telephone call made in the movies—science fiction movies excepted—must be the call, shown in "The Dish" (2000), between President Nixon and the astronauts on the moon. In "Hackers" (1995) we learn how to get free long-distance from pay phones: tape record the sound after depositing lots of quarters and then use that recording. Krzysztof Kieslowski's "Trois couleurs: Rouge" (1994) shows the path, along wires and cables, taken by telephone signals.

Finally, we might comment on the red telephone seen on the desk of world leaders in many movies, notably James Bond—and later Austin Powers—movies. This, of course, indicates a "hot line" to another world leader. This started with the direct connection between President Kennedy and Premier Khrushchev which the United States and the Soviet Union agreed to establish immediately following the Cuban missile crisis in October 1962. Just over a year later it appeared in "Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb".

As always, we would be grateful for reports from readers of other interesting cinematic depictions of long-distance telephony. You may contact us at history@ieee.org.

IEEE NEWS

IEEE-USA Urges Congress to Strengthen Protections for U.S. High-Tech Workers in Temporary Visa Programs

WASHINGTON (September 16, 2003) - Congress should allow the H-1B visa cap to drop to its original level of 65,000, retain the \$1,000 visa application fee and ensure that the money is used to provide technical skills training for displaced high-tech U.S. workers, according to IEEE-USA President-Elect John Steadman, who testified before the Senate Judiciary Committee today.

While more than 900,000 H-1B visas, including new, renewal and exempt categories, were approved since the beginning of FY 2000, the unemployment rate among electrical and electronics engineers shot up to an unprecedented 7 percent in the first quarter of this year. Thousands more guest workers entered the country

on L-1 visas, and an undetermined number of engineers and information technology professionals have lost their jobs to offshoring during the same period, Steadman noted.

"Ultimately at risk is America's ability to innovate and to use technology to provide competitive advantage and ensure our national economic and military security," Steadman said.

IEEE-USA's additional recommendations include:

- ❑ Requiring all U.S. companies to attest that they have tried and been unable to hire U.S. workers, and that they have not displaced U.S. employees to hire an H-1B worker. Currently, only H-1B dependent companies (those with 15 percent or more of their workforce on H-1B visas) have to meet this requirement, and they account for just 2 percent of companies submitting H-1B visa applications
- ❑ Passing the USA Jobs Protection Act of 2003 (S. 1452 / H.R. 2849), bipartisan legislation that would plug loopholes and prevent abuses of both the H-1B and L-1 visa programs
- ❑ Paying all H-1B workers a prevailing wage that is not less than the median salary paid to similarly qualified U.S. workers in their intended area(s) of employment
- ❑ Empowering the Department of Labor to enhance compliance and reduce fraud and abuse by authorizing random audits of labor condition applications and related H-1B visa applications

You'll can link to IEEE-USA's entire testimony at <http://www.ieeeusa.org/forum/issues/H1bvisa/index.html>.

CURRENT VERSION OF IEEE's "THE INSTITUTE" NOW AVAILABLE

The most current version of "The Institute", containing news around the IEEE, can be found at <http://www.ieee.org/theinstitute>. Included in this issue is:

New Insurance Protects Against Losses from Identity Theft

If you don't think identity theft can happen to you, think again. In the last five years, 27.3 million U.S. citizens have been victims of identity theft. To help combat this crime, the IEEE Financial Advantage Program(tm) has introduced Identity Guard, a benefit for U.S. members that combines identity theft insurance with personal credit management, fraud protection, and fraud victim assistance. Find out more at http://www.theinstitute.ieee.org/inst_art.jsp?isno=10031&arnumber=10031_10w.fap§ion=7

Marketplace of Ideas: Irradiated Foods

Irradiating foods-exposing food to gamma rays, electron beams, or X-rays-kills many parasites and bacteria that make humans sick while, proponents say, leaving food safe and edible. Do you think it is safe to eat irradiated foods? Weigh in at http://www.theinstitute.ieee.org/inst_art2.jsp?isno=10031§ion=20

Register with the IEEE Job Site and Get a Free Posting

During October and November, register the name of your organization's recruitment manager at <http://www.spectrum.ieee.org/jobsite/hrmanagerform> and your group will receive one free "Help Wanted" job posting for 30 days. The IEEE Job Site staff will contact each manager to help prepare the listing. The IEEE Job Site is at <http://www.ieee.org/jobs>

Electron Device Conference Showcases Faster Transistors and MEMS

When IBM Corp. discovered a way to make transistors perform 40 to 65% faster than those currently used in today's computers, the company chose to unveil the techniques at this year's IEEE International Devices Meeting (IEDM), 7 to 10 December in Washington, D.C. Find out what other new technologies will be

presented,

at

http://www.theinstitute.ieee.org/inst_art.jsp?isno=10031&arnumber=10031_10w.confIEDM§ion=42

Students Asked to Think Science And Put it On Video

Can your child help solve a worldwide problem in 60 seconds? If so, you should enter him or her in the VINNY competition, a competition for student-produced, one-minute videos illustrating how science, technology, engineering, and mathematics could solve a global problem, such as food distribution or global warming. The deadline to register competitors is October 31. Read more at http://www.theinstitute.ieee.org/inst_art.jsp?isno=10031&arnumber=10031_10w.vinny§ion=2

E-Mail Alias Service Stops Viruses in Their Tracks

Like a virtual bouncer of the cyberworld, the virus screening feature that's part of the IEEE Personal E-mail Alias Service had ample opportunities to flex its muscles last month as it turned away a record number of Internet virus attacks. Find out how this free benefit protects members' e-mail at http://www.theinstitute.ieee.org/inst_art.jsp?isno=10031&arnumber=10031_10w.featurealias§ion=4

IEEE Editors to Chair Emerging Technology Panels at Comdex

Editors from IEEE Spectrum and IEEE Security and Privacy magazines will host expert panels on robotics, nanotechnology, wireless networking, and more at Comdex. This leading technology trade show will be held in November in Las Vegas, Nev., USA. For information on a registration discount for IEEE members, visit <http://www.ieee.org/newsinfo/briefs.xml#comdex>

CURRENT VERSION OF IEEE-USA's "TODAY'S ENGINEER" NOW AVAILABLE

The most current version of IEEE-USA's "Today's Engineer" can be found at <http://www.todaysengineer.org>. Included in this issue is:

Reading, 'Riting, 'Rithmetic and... Engineering?

Several states have added pre-engineering to their K-12 curricula. Is this a good thing? And, if it is, what format should pre-college engineering coursework take? <http://www.todaysengineer.org/Sept03/education.asp>

Leadership... or Something Like It

What makes a great leader? What are some of the leadership killers? How can we be a part of the covenant that creates both leaders and results? <http://www.todaysengineer.org/Sept03/leadership.asp>

Global Issues Cloud Job Market

The employment market hasn't rebounded as quickly as unemployed and underemployed engineers have hoped, but layoffs have slowed. While professionals are looking for the upturn, they remain concerned about the impact changes in the global marketplace will have on this "jobless recovery." <http://www.todaysengineer.org/Sept03/job-market.asp>

Senate Swaps Energy Bills To Break Partisan Deadlock

In an unusual turn of events, Senate Energy and Natural Resources Committee chair Pete V. Domenici (R-N. Mex.) put the Democrats' version of the energy bill to a vote, knowing this version would have a better chance of passing before Congress' August recess. What are the differences between this version and the Republicans' version? What happens from here? <http://www.todaysengineer.org/Sept03/energy.asp>

Also in this issue:

- ❑ Engineering Hall of Fame: John Heysham Gibbon
- ❑ World Bytes: Raise Your Sights
- ❑ Capitol Shavings: How Do We Keep the Lights On?

IEEE-USA Recommends Electric Grid Investment, Cooperation and Coordination to Improve Reliability and Prevent Future Blackouts

WASHINGTON (September 24, 2003) - To help prevent a recurrence of last month's devastating power blackout in the United States and Canada, the U.S. government and the electric industry should increase investment in our nation's electric grid, improve its communications' capabilities and provide for consistency of operating rules, the IEEE-USA Energy Policy Committee recommended to the House Energy and Commerce Committee in a written statement on August 29.

According to the IEEE-USA committee, grid investment may require the construction of additional power lines and generating plants, while also looking to new technology and innovation to improve system reliability. Grid cooperation includes making reliability incentives compatible with economic incentives. Plant operators' authority and communications facilities must be sufficient enough to deal with reliability concerns in a timely manner.

According to the committee, grid coordination requires consistent operating rules and protocols that transcend state and utility boundaries. IEEE-USA recommends that the North American Electric Reliability Council (NERC) and the Federal Energy Regulatory Commission (FERC) collaborate to establish rules and procedures that ensure system-wide electricity reliability.

IEEE-USA supports legislation (H.R. 6) empowering FERC to create an Electric Reliability Organization that gives NERC the legislative authority to assure the reliability of the complete North American electric system, including elements in Canada and Mexico.

IEEE-USA's statement came in the form of responses to questions posed by the House committee, which is chaired by Rep. Billy Tauzin (R-La.). For the entire document, go to <http://www.ieeeusa.org/forum/POLICY/2003/082903.html>.

IEEE-USA Applauds Congress for Allowing H-1B Visa Cap to Drop, Calls For Renewal of Workforce Protections

WASHINGTON (September 30, 2003) - While applauding Congress for allowing the H-1B visa cap to drop to its historical level of 65,000 this Wednesday, IEEE-USA believes the \$1,000 visa application fee, H-1B-dependent attestations and the Department of Labor's limited authority to investigate H-1B fraud and abuse need to be renewed and strengthened.

The more than 900,000 H-1B visas issued in new, renewal and exempt categories since the beginning of FY 2000 has exacerbated high-tech unemployment in the United States, according to IEEE-USA. The unemployment rate for electrical and electronics engineers (EEs) rose to an unheard of 7 percent in the first quarter of 2003, and stood at 6.4 percent in the second quarter.

A staggering 230,000 U.S. workers in 12 engineering and computer job classifications were unemployed in the second quarter, according to the Bureau of Labor Statistics.

"We're pleased that Congress listened to its constituents - the thousands of jobless engineers, computer specialists and IT professionals - and chose to let the cap drop back," IEEE-USA President-Elect John Steadman said. "But we must remain vigilant because we're sure H-1B proponents will seek to increase the cap again next year."

In addition to holding the cap at 65,000, IEEE-USA would like Congress to reinstate the \$1,000 visa application fee and strengthen training for displaced engineers and high-tech professionals. IEEE-USA further

believes that all U.S. companies petitioning for H-1B visas, not just H-1B-dependent companies, should attest that they have tried and been unable to hire U.S. workers, and that they have not displaced U.S. employees to hire an H-1B worker.

IEEE-USA's Steadman recently testified before the Senate Judiciary Committee on the H-1B program. His testimony is available at <http://www.ieeeusa.org/forum/issues/H1bvisa/index.html>.

**IEEE in Central Texas Announces Globalization Forum,
October Event in Austin To Focus on Technology Policy Issues**

Austin, Texas (October 3, 2003) - IEEE-USA and the IEEE Central Texas Section are pleased to announce its upcoming forum, "Globalization & Technology: A Dialogue on Policy Issues." Scheduled for Friday, October 17 in Austin, Texas, the all-day event is expected to foster open discussion among government, academic and corporate leaders in a forum focused on the effect of globalization on public policy and technology.

Recognizing that Central Texas is a worldwide center of technology, speakers and audience will discuss how current advances in technology impact the world's economies and cultures, which policies the U.S. should adopt with regards to the globalization of technology, and how these shifts in policy shape the technology sectors of this region as well as the nation.

Confirmed keynote speakers include Clifford Lau, Associate Director for the University Program at the U.S. Office of Naval Research (Office of the Deputy Under Secretary of Defense), and President-elect of the IEEE Nanotechnology Council; and national author and syndicated columnist Austin Bay, noted for his foreign affairs commentaries on National Public Radio's Morning Edition, CNN, C-SPAN, and ABC News Nightline.

Confirmed panelists include Ralph Wyndrum, AT&T Labs and V.P. of Technology Policy Activities, IEEE-USA; Juan Sanchez, V.P. for Research, The University of Texas at Austin; Jim Carlo, President-Elect of IEEE Standards Association; Brian Bauer, IBM Program Executive for Global Security Strategy and Assurance, IBM Global Services; LeEarl Bryant, 2002 President, IEEE-USA; Larry Leibrock, Associate Dean for Technology & Chief Technology Officer, The University of Texas at Austin; and Mayor Pro Tem Jackie Goodman, Austin City Council.

Keynote speakers and peer panels will address globalization issues such as technology transfer and commercialization, security and privacy, communications, energy and education. The forum is scheduled from 7:30 a.m. to 4:30 p.m. (forum includes continental breakfast, lunch and closing reception) at the Capitol Marriott in Austin, 701 East 11th Street. Complete forum details are available online at: www.centraltexassection.org.

Forum co-sponsors include American Electronics Association Texas Council (AeA), IC² Institute, IEEE Computer Society (Austin Chapter), IEEE-Dallas Section, IEEE-El Paso Section, IEEE-Galveston Bay Section,

IEEE Power Engineering Society-Central Texas, North Texas Technology Council, Rice Alliance for Technology & Entrepreneurship, Technical Business Network, Texas Camino Real Export Council and TiE (The IndUS Entrepreneurs).